

# New York State Department of Transportation

## Yellow Flag NB2228W007

By: Ben Colangelo

Flag Date: March 18, 2022

Superseding Information:

This flag supersedes: YF NB2122W025

### Structure Information

**BIN: 1065318**

**Feature Carried: 278I278IX2M23027**

**Feature Crossed: 6TH AVENUE**

**Orientation: 8 - NORTHWEST**

**Region: 11 - NEW YORK CITY**

**County: KINGS**

**Political Unit: City of NEW YORK**

**Approximate Year Built: 1962**

**Posted Load Matches Inventory : Yes**

**Bridge Load Posting (Tons) : Not Posted for Load**

**Primary Owner: New York State Department of Transportation**

**Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party**

**Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder**

**This Bridge is not a Ramp**

**Number of Spans: 322**

### Verbal Notification Information

**Person Notified: Not Contacted**

**Date:**

**Of:**

### Signature Information

**Signature: Ben Colangelo, P.E. 068498**

**Date: March 25, 2022**

**Reviewed By: Robert Kemp**

**Date: March 25, 2022**

**Attachments: 7**

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 198</b>			
	107 - Steel Open Girder/Beam	989	ft

### Flagged Condition Description

\*QC Note: This flag was re-inspected by Sahadeo Bhagwandin, P.E. No. 088239, but due to a software glitch, is being entered into BDIS (EAM) under Ben Colangelo, P.E.\*

This Yellow Flag No. NB2228W007 supersedes Yellow Flag No. NB2122W025.

Location: Span 198, Girder G19 at Pier 197.

Description: The right clip/connection angle of Girder G19 connection to the end face of the pier cap at Pier 197 exhibits a 3-1/2" long vertical crack x 3/8" wide at the upper fillet section (deterioration induced cracking, no change from the previous inspection). The remaining section of this clip angle has heavy corrosion with up to 3/16" section loss. The left side stiffener connection angle has a 2" long x 1/8" wide vertical corrosion crack at the upper section (not previously noted), at the connection to the pier cap. Other than as noted, there has been no significant changes to this flagged condition.

#### Notes:

1. The affected member Girder G19 is a load path redundant steel girder consisting of a web depth of 19.27 inches and thickness of 0.608 inches and is located into the roadway, approximately 12" off the edge of the curb line/safety walk above.
2. The spacing between Girder G19 and Girder G18 is 5'-3" on center and 2'-0" on center between Girder G18 and the right fascia Stringer S2.
3. At the adjacent Girder (left) G18, with a spacing of 5'-3" on center, the right side of the girder web has 1/8" deep pitting for full height x 4"-8" wide at the connection angle to the pier and has up to 3/16" deep pitting for 30" L x 1"-3" high in the lower web, above the bottom flange.
4. The adjacent Stringer (right) S2, with a spacing of 2'-0" on center, acts as a support for the railing and curb area above and has a bottom flange left angle with severe corrosion with up to 80% section loss for 18" long x 2" wide and a 2" long x 1" wide corrosion hole. The right-side clip angle has up to 20% section loss.
5. A double left lane closure on 3rd Avenue Eastbound between 34th and 32nd streets with shadow vehicle and a 35' bucket truck is required to access the flagged location.

**Flag Photographs**

Photo Number: 1

Photo Filename: 1-Photo 4394.jpg



**Attachment Description:** Span 198, Girder G19 at Pier 197. General view of crack location at pier cap connection. Looking begin.

Photo Number: 2

Photo Filename: 2-Photo 4377.jpg

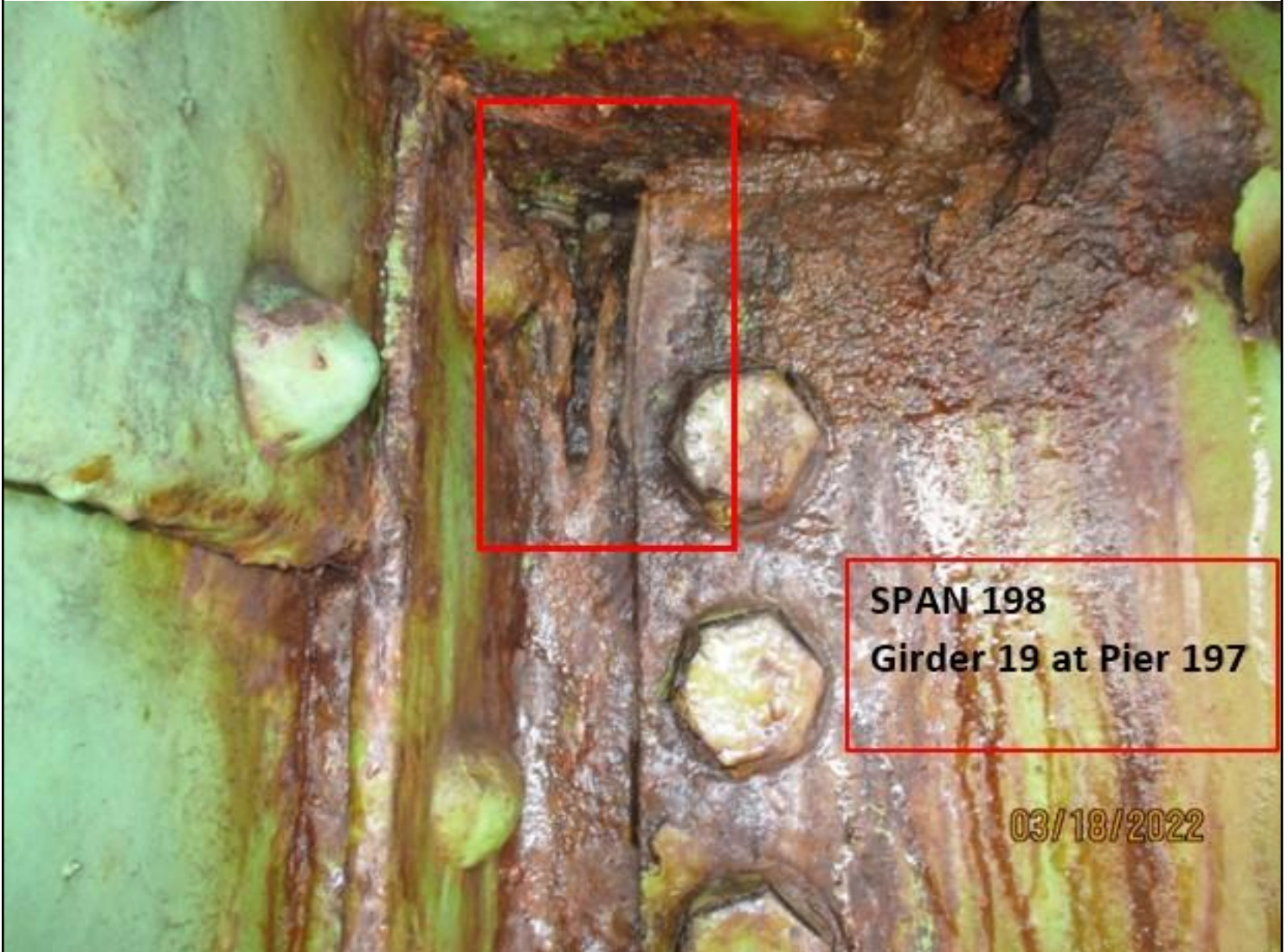


**Attachment Description:** Span 198, Girder G19 at Pier 197. General view of the flagged location showing severe corrosion and cracking in the right connection angle of the girder to the pier cap. Looking begin-left.



Photo Number: 3

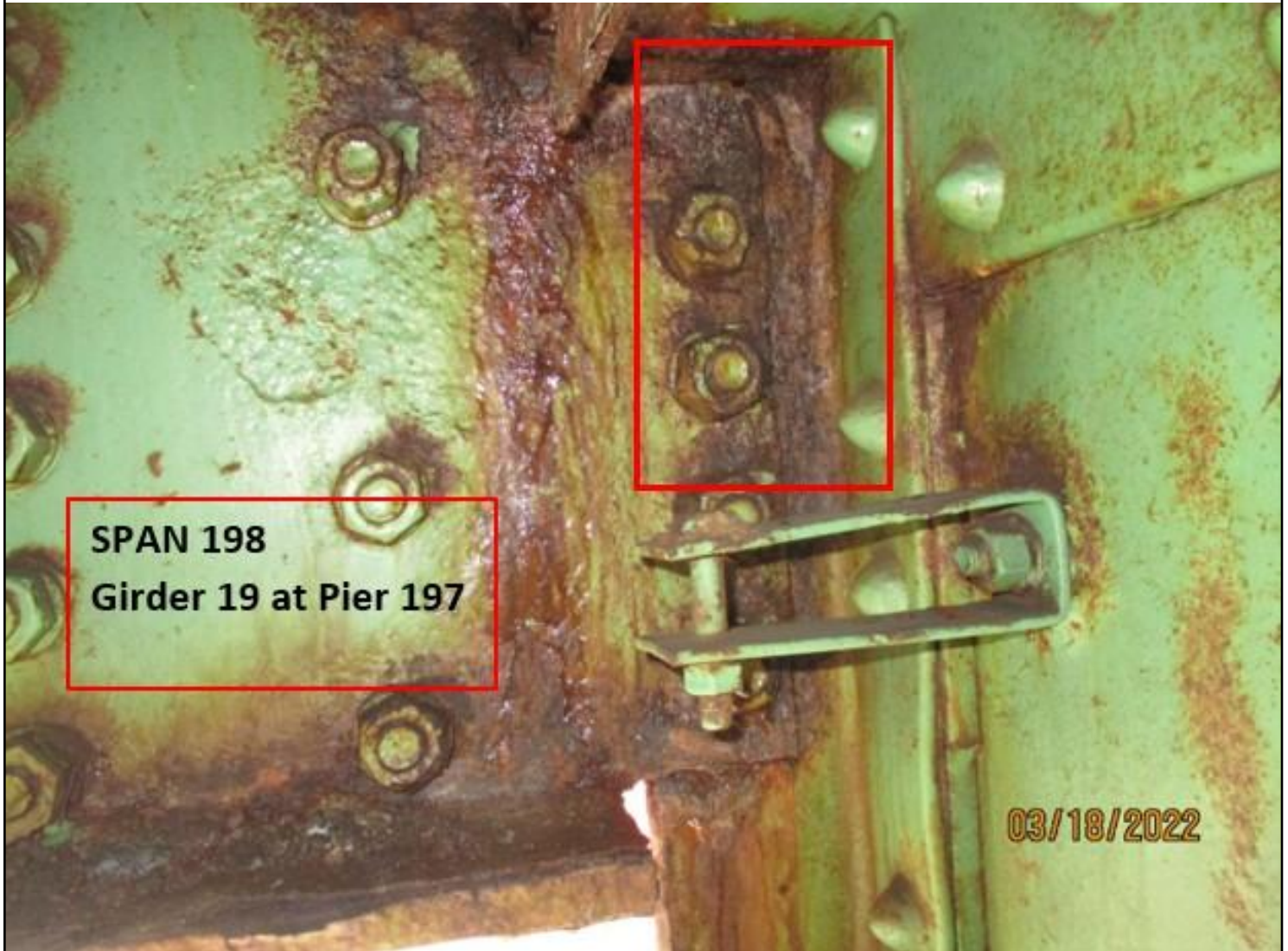
Photo Filename: 3-Photo 4375.jpg



**Attachment Description:** Span 198, Girder G19 at Pier 197. Close-up view of the flagged location showing a 3-1/2" long vertical crack x 3/8" wide at the upper fillet section. Looking begin-left.

Photo Number: 4

Photo Filename: 4-Photo 4387.jpg



**Attachment Description:** Span 198, Girder G19 at Pier 197. General view of the flagged location showing severe corrosion and cracking in the left connection angle of the girder to the pier cap. Looking begin-right.



Photo Number: 5

Photo Filename: 5-Photo 4390.jpg



**Attachment Description:** Span 198, Girder G19 at Pier 197. Close-up view of the flagged location showing a 2" Long x 1/8" wide vertical crack at the upper section in the left connection angle of the girder to the pier cap. Looking right.

Photo Number: 6

Photo Filename: YF NB2228W007 Framing Plan.jpg

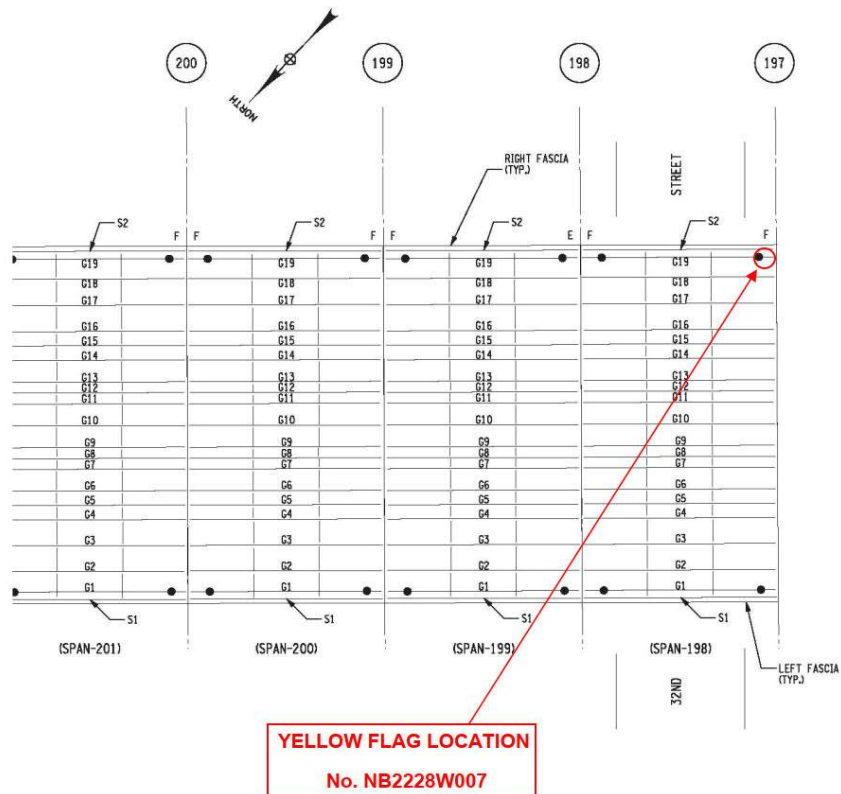
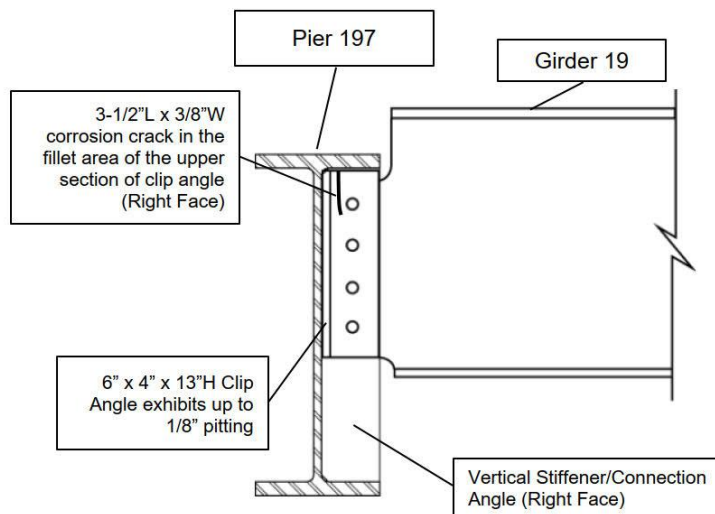
**Attachment Description: Framing Plan**

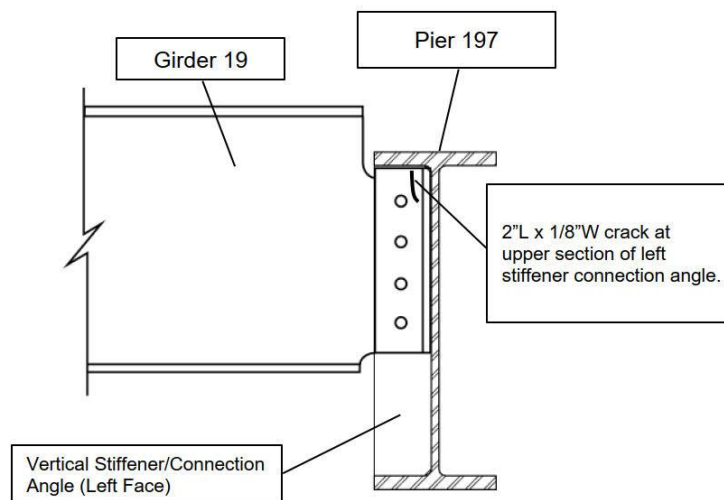


Photo Number: 7

Photo Filename: YF NB2228W007 Sketch.jpg



**SPAN 198, GIRDER G19 BEAM END AT PIER 197  
(LOOKING LEFT)  
N.T.S**



**SPAN 198, GIRDER G19 BEAM END AT PIER 197  
(LOOKING RIGHT)  
N.T.S**

***Attachment Description: Sketch***